

10/23/2015

Mr. Terry Taylor

Anderson Mulholland & Associates, Inc.

2700 Westchester Avenue

Suite 417

Purchase NY 10577

Project Name: BMS VI

Project #:

Workorder #: 1510351B

Dear Mr. Terry Taylor

The following report includes the data for the above referenced project for sample(s) received on 10/20/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Brian Whittaker

Project Manager

WORK ORDER #: 1510351B

Work Order Summary

CLIENT: PHONE: FAX: DATE RECEIVED: DATE COMPLETED:	Mr. Terry Taylor Anderson Mulholland & Associates, Inc. 2700 Westchester Avenue Suite 417 Purchase, NY 10577 (914) 251-0400 10/20/2015 10/23/2015	BILL TO: P.O. # PROJECT # CONTACT:	Accounts Payable Anderson Mulholland & Associates, Inc. 2700 Westchester Avenue Suite 417 Purchase, NY 10577 BMS VI Brian Whittaker
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<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	B30IA-1 101715	Modified TO-15 (5&20 ppbv	5.7 "Hg	5 psi
02A	B30IA-2 101715	Modified TO-15 (5&20 ppbv	6.1 "Hg	4.8 psi
03A	B30IA-3 101715	Modified TO-15 (5&20 ppbv	7.8 "Hg	4.1 psi
04A	B30IA-4 101715	Modified TO-15 (5&20 ppbv	4.7 "Hg	5.1 psi
05A	B30IA-4D 101715	Modified TO-15 (5&20 ppbv	3.7 "Hg	4.8 psi
06A	B30IA-5 101715	Modified TO-15 (5&20 ppbv	5.9 "Hg	5.2 psi
07A	B42IA-1 101715	Modified TO-15 (5&20 ppbv	6.1 "Hg	4.9 psi
08A	B42IA-2 101715	Modified TO-15 (5&20 ppbv	4.5 "Hg	4.9 psi
09A	B42IA-3 101715	Modified TO-15 (5&20 ppbv	2.6 "Hg	4.9 psi
10A	B3042AA	Modified TO-15 (5&20 ppbv	8.8 "Hg	4.9 psi
11A	B8IA-2 101715	Modified TO-15 (5&20 ppbv	4.5 "Hg	4.9 psi
12A	B8IA-2D 101715	Modified TO-15 (5&20 ppbv	7.1 "Hg	5.1 psi
13A	B8AA-1 101715	Modified TO-15 (5&20 ppbv	4.5 "Hg	5 psi
14A	Lab Blank	Modified TO-15 (5&20 ppbv	NA	NA
15A	CCV	Modified TO-15 (5&20 ppbv	NA	NA

CERTIFIED BY:



Technical Director

DATE: 10/23/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
EPA Method TO-15 Soil Gas
Anderson Mulholland & Associates, Inc.
Workorder# 1510351B

Thirteen 6 Liter Summa Canister (100% Certified) samples were received on October 20, 2015. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds EPA METHOD TO-15 GC/MS

Client Sample ID: B30IA-1 101715

Lab ID#: 1510351B-01A

No Detections Were Found.

Client Sample ID: B30IA-2 101715

Lab ID#: 1510351B-02A

No Detections Were Found.

Client Sample ID: B30IA-3 101715

Lab ID#: 1510351B-03A

No Detections Were Found.

Client Sample ID: B30IA-4 101715

Lab ID#: 1510351B-04A

No Detections Were Found.

Client Sample ID: B30IA-4D 101715

Lab ID#: 1510351B-05A

No Detections Were Found.

Client Sample ID: B30IA-5 101715

Lab ID#: 1510351B-06A

No Detections Were Found.

Client Sample ID: B42IA-1 101715

Lab ID#: 1510351B-07A

No Detections Were Found.

Client Sample ID: B42IA-2 101715

Lab ID#: 1510351B-08A

No Detections Were Found.

Client Sample ID: B42IA-3 101715

Lab ID#: 1510351B-09A

Summary of Detected Compounds EPA METHOD TO-15 GC/MS

Client Sample ID: B42IA-3 101715

Lab ID#: 1510351B-09A

No Detections Were Found.

Client Sample ID: B3042AA

Lab ID#: 1510351B-10A

No Detections Were Found.

Client Sample ID: B8IA-2 101715

Lab ID#: 1510351B-11A

No Detections Were Found.

Client Sample ID: B8IA-2D 101715

Lab ID#: 1510351B-12A

No Detections Were Found.

Client Sample ID: B8AA-1 101715

Lab ID#: 1510351B-13A

No Detections Were Found.

Client Sample ID: B30IA-1 101715

Lab ID#: 1510351B-01A

EPA METHOD TO-15 GC/MS

File Name:	14102231	Date of Collection:	10/18/15 11:00:00 A	
Dil. Factor:	1.66	Date of Analysis:	10/22/15 10:39 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	83	Not Detected	110	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: B30IA-2 101715

Lab ID#: 1510351B-02A

EPA METHOD TO-15 GC/MS

File Name:	14102232	Date of Collection:	10/18/15 11:26:00 A
Dil. Factor:	1.67	Date of Analysis:	10/22/15 11:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	84	Not Detected	110	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: B30IA-3 101715

Lab ID#: 1510351B-03A

EPA METHOD TO-15 GC/MS

File Name:	14102235	Date of Collection: 10/18/15 11:59:00 A
Dil. Factor:	1.72	Date of Analysis: 10/23/15 07:13 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	86	Not Detected	110	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: B30IA-4 101715

Lab ID#: 1510351B-04A

EPA METHOD TO-15 GC/MS

File Name:	14102234	Date of Collection:	10/15/15 11:38:00 A	
Dil. Factor:	1.60	Date of Analysis:	10/23/15 06:52 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	80	Not Detected	100	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: B30IA-4D 101715

Lab ID#: 1510351B-05A

EPA METHOD TO-15 GC/MS

File Name:	14102236	Date of Collection:	10/18/15 11:38:00 A
Dil. Factor:	1.51	Date of Analysis:	10/23/15 07:42 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	76	Not Detected	99	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: B30IA-5 101715

Lab ID#: 1510351B-06A

EPA METHOD TO-15 GC/MS

File Name:	14102237	Date of Collection: 10/18/15 11:32:00 A
Dil. Factor:	1.69	Date of Analysis: 10/23/15 08:03 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	84	Not Detected	110	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: B42IA-1 101715

Lab ID#: 1510351B-07A

EPA METHOD TO-15 GC/MS

File Name:	14102238	Date of Collection:	10/18/15 12:38:00 P	
Dil. Factor:	1.68	Date of Analysis:	10/23/15 08:31 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	84	Not Detected	110	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: B42IA-2 101715

Lab ID#: 1510351B-08A

EPA METHOD TO-15 GC/MS

File Name:	14102239	Date of Collection: 10/18/15 7:54:00 AM
Dil. Factor:	1.57	Date of Analysis: 10/23/15 08:51 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	78	Not Detected	100	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: B42IA-3 101715

Lab ID#: 1510351B-09A

EPA METHOD TO-15 GC/MS

File Name:	14102240	Date of Collection: 10/18/15 7:52:00 AM
Dil. Factor:	1.46	Date of Analysis: 10/23/15 09:11 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	73	Not Detected	96	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: B3042AA

Lab ID#: 1510351B-10A

EPA METHOD TO-15 GC/MS

File Name:	14102241	Date of Collection:	10/18/15 1:45:00 PM
Dil. Factor:	1.88	Date of Analysis:	10/23/15 09:31 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	94	Not Detected	120	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: B8IA-2 101715

Lab ID#: 1510351B-11A

EPA METHOD TO-15 GC/MS

File Name:	14102242	Date of Collection:	10/18/15 11:45:00 A	
Dil. Factor:	1.57	Date of Analysis:	10/23/15 09:58 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	78	Not Detected	100	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: B8IA-2D 101715

Lab ID#: 1510351B-12A

EPA METHOD TO-15 GC/MS

File Name:	14102243	Date of Collection:	10/18/15 11:45:00 A
Dil. Factor:	1.77	Date of Analysis:	10/23/15 10:18 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	88	Not Detected	120	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	95	70-130



Air Toxics

Client Sample ID: B8AA-1 101715

Lab ID#: 1510351B-13A

EPA METHOD TO-15 GC/MS

File Name:	14102244	Date of Collection:	10/18/15 11:45:00 A
Dil. Factor:	1.58	Date of Analysis:	10/23/15 10:56 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	79	Not Detected	100	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: Lab Blank

Lab ID#: 1510351B-14A

EPA METHOD TO-15 GC/MS

File Name:	14102230	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/22/15 10:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methanol	50	Not Detected	66	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: CCV

Lab ID#: 1510351B-15A

EPA METHOD TO-15 GC/MS

File Name:	14102229a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/22/15 09:51 PM

Compound	%Recovery
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Methanol	100
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Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130